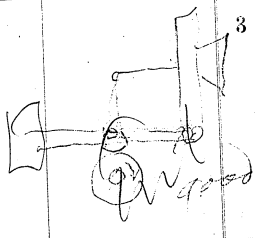
Notebook Series -- Pocket Notebooks
Notebook, PN-13-00-00

This undated non-standard-size pocket notebook was used by Edison during 1918 or 1919 to record ideas about business matters, experiments to be tried, and other tasks to be performed. Some of the items have been crossed out and marked "ent." Included are notes relating to various electrical phenomena such as x-rays and "xyz rays." Also included are entries pertaining to the electromotograph and chalk telephone, battery cells, acoustic experiments on shipboard, audions, disc records, radium, and a chemical paper sensitive enough to print wireless signals like a printing telegraph. The business-related entries include minor items on salaries and labor. The front cover is stamped "Ledger." The book contains 144 numbered pages, some of which are blank.

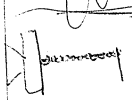
Hunt in Orr Mill [illegible]
tract [illegible] & [illegible] cyl
the Sodium Ele-
+ make good [illegible] one
also buy a Headley's
Mill tract up a load

[illegible] from the [illegible]
Co near Orange or a
[illegible] load the [illegible]
Rubber Lenses [illegible]

Maxwell-Chandler-Gilling
[illegible]
[illegible]
[illegible]
We can discuss [illegible]
[illegible]
[illegible] the [illegible]
[illegible] of our own
[illegible] of [illegible]
Before starting we
could test the [illegible]
Machine we make &
see they work OK



see if Cupric Ammonium
would dissolve Ammonite
on a piece of
Carbonate



For Checks

By double Dilump with

Silicate Costs —

Also Lungstates

Collect all the XYZ

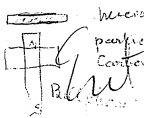
all made by Solum

Also my Personal

books of XYZ Separate

Whereas a Certain

Sulphate of Magnesia



Tray Selatoy — Poulicals

See drump with Flavin

for those

Divists Election

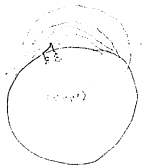
test all my Thermo couples
for Magnesium & alloys
Thermo effect
they are in Sub
solution at [illegible]

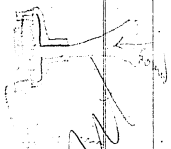
Should make fusions
of salt & in this
Crucible all sorts
of Bombus pure &
with impurities

Trompe with tube
like Mercurie leading to
another trompe pump

medium – to detect 7
displacements of the order
of 1000 meters

Put a Wheatstone Bridge
Condenser in shunt
Space of the order of
glass-connect wires
Invite Graphium
Chromium & see if any
more when cleaning
Repeatly

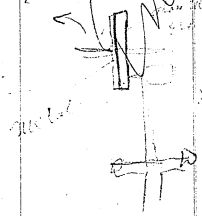




See what happens

Put all the Electric Gadgets together in Library

For filling Air Receiver
Medical Galvanism apparatus
use Iron 180 to 200
Mesh MgO.
Carb Ca W Vanadium —
see what happens



Use Absorption in
Step Experiments — improves
& also give hopes
on signs of Continuity
when [illegible]

Seen of Glass [illegible]
[illegible] Vacuum tube
is sensitive to influences

Experiment — 3 ft [illegible]
heated to melting point
Barium & Lithium
[illegible]
[illegible]

Try Hypothesis the Land
[illegible] action on [illegible]
of Barium & Lithium

makes sparks from
[illegible] side of
deflected [illegible]

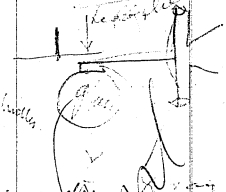
X ray [illegible] long
from wire [illegible]
[illegible] Lithium,
Barium —

Look up Electric [illegible]
[illegible] Chemistry
got his information
Look up Science [illegible]
[illegible] got [illegible]

Condense pure
Condensed varnish
at lowest pressure
heat 110 perhaps
with [illegible] pressure
[illegible]
[illegible] hydrolyzed
[illegible] hydrolyzed
[illegible] hydrolyzed
[illegible] Varnish

Take old bad cell
[illegible] 80 feet
[illegible]
Cement [illegible]
Platinum [illegible]
[illegible]
[illegible] hydrolyzed

[illegible]
Take [illegible]
[illegible]

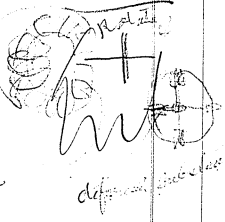


Lithium Potassium salts
of tungstic acid oxides insol
in alkali

BiO_3 Li K
CO_2 Li K
UO_3 Li K
MoO_2 Li K

Cobalt & Ni
Cobaltous Hydroxide
Cobalt Nitrate
Barium
also Barium carbonate
50 grams Ba(OH)$_2$

Dry Condensation
Leaves & Sand and
say 5% or all from
Organic Chemicals
Para Cont. reason
[illegible] use any
Lecture the Tiny of
Inorganic & Organic Chem
will definitely use
& use small 1 1/4"
plates on Hot plate



different indicators

Make a wooden rounded [illegible] reduce on wooden [illegible] paper glue.

Experiment on packing Cement in bags paper bag hydrocarbon etc

When testing a Water plane sink a bag roll coupling 3 3 bags its water of Cure length of wicked Curve deflection apart –

How would it do for Fulham to sell all qualities mixed in [illegible]

If I can get a principal
[illegible] sensible enough
Count with [illegible]
Record under [illegible]
[illegible]
[illegible]
with [illegible]

A dead neutral Doll
[illegible] KCB, [illegible] Chairman
[illegible] on [illegible] of
KCB [illegible] remark

[illegible] in Company
[illegible]
[illegible] Group
[illegible] not use in
Cylinder [illegible]
[illegible]
[illegible]

see if [illegible] a little [illegible] with [illegible]
[illegible] Chemical
[illegible] 2 [illegible]
[illegible] [illegible]
the [illegible]

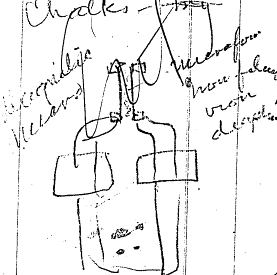
possibly both with
[illegible] with [illegible]
[illegible]
[illegible]

See [illegible] Millaleung
[illegible]
[illegible] £2000
to 1 Millaleung
[illegible]
[illegible]

Use a chalk soak
it slightly in
an oil or liquid
used in wax. When
dry wet in Reg
way with KOH
if the [illegible] get results
possibly want new
P elements N [illegible]
+ high Res.

Also try Very
high Volt +
many liquids non
Conductor strong
Currents to see if
works without
KOH, —

Wet a chalk with
KOH containing
a Colloid like
Ferric Silica
Albumin Gelatin
Caramel — see if
it improves bad
Chalks —



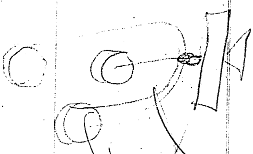
[illegible]

Sec of [illegible]
has a [illegible]
action,

Manuscript about
Adolph Hansen
since only [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

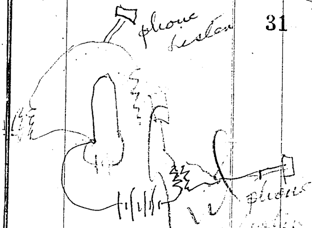
Between poles of
an electro-magnet
Magnet with power
[illegible] in [illegible] room
[illegible] crystal to
get light [illegible]
X ray crystal [illegible]
[illegible]
[illegible]
600 [illegible]
[illegible]

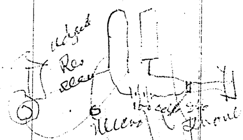
also [illegible]
between poles of [illegible]
[illegible]
[illegible]



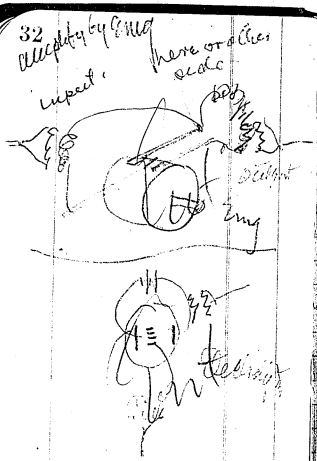
3 water [illegible]
3 [illegible] Eng
3 sep [illegible]

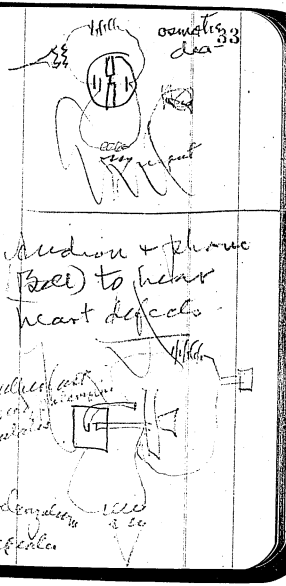
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible] by
[illegible]





Bring to high temp & then
tel phone bring still
higher when 1 [illegible]




Audion + phone
(Bell) to hear
heart defects.

See how much can
strengthen Cement
paper bags by
rubbing on
something or
oily and on some
part.

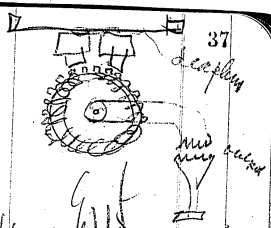
Test possibility of
Emery cut glass at
Clark

Do not forget to
using very hard water
Vinegar
bag will bring
them out

In a dark Room —
powerful Magnet
pointed poles — Revolving
holder, Cut in Crystal
also Crystals with
Crystals in them
Medicine Containing
from Mr Co
& other impurities
Tells fusion in
Act

Drums cut from all
kinds of Crystals —
traditional proto
light gentleman with
[illegible] by it is
the explosion

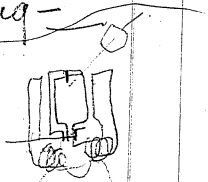
Longitudinal Coupla-
one end hug by X ray
Radium —



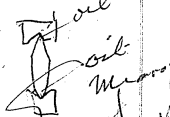
Vibrator field magnets
armature fine wire
high velocity
alternating

Insulated of a
Mag dot Magnetic
Circuits not a
Rod for field mag
& many turns
foundry rotor also

For amplifying moderate vibrations with audion only use no non Cores or Ebug —

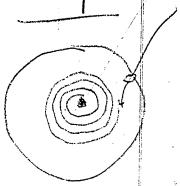


Receptive Vibs put a break on a high speed motor, friction would grow form a fuse



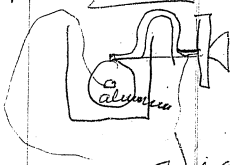
An acoustic cable probably work OK with an adjustable Resonator for best tone of arm of screw propeller with audion

Make Cadmium A4
" Cobalt "
use of Voltage in
OK for Auto
Starters, also
low temp -



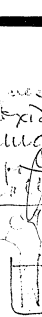
Heated Conductor
Carbon put on
with Vernier
(Electrical) measures

Use Resistance &
then use High Voltage
battery in series
for transmitter



Aluminum Redfern
would best
legend building
with Allen
Remove legend
or not a deal

Magnesium ribbon
burnt & oxidized & reduced
in Engl.
perhaps [illegible]
in Mexico [illegible]



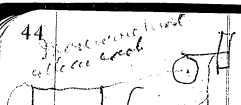
Liquids
Amphibiguous

Dated [illegible]
[illegible] 1012
acc of Rick [illegible]
[illegible]
[illegible] Dalaqua

Vac tube

This should [illegible]

- Lead battery —
now shrinking
Positive lead [illegible]
sulphate [illegible] unknown
— Silica hydrox —
[illegible] reduced
[illegible] reduced
[illegible] needed
Electrolyte —
Balloon — Centro
Glasses = [illegible]
[illegible] stuff burnt by



If now have surrounded
Electrolytic Cell
& that a Current
passing it charges
it like a Condenser
then

Pump other
instruments slides
upon a

Manufactures
of another point of
Elevation of water

Pulsimeter
detect waves
or a ray proceeding
from one of the
poles

or Crystals in clock
towers or Pulsimeter
or Eiffel Tower
glass slide

visibly different
phosphorescence
all kinds — & shift
to cause bright
effect to be observed &
these become visible

It is likely that if a
make a great number
of phosphorescent
screens X & Rontgen
[illegible]
these will be found
[illegible]
[illegible]
rays by being

to demonstrate the
light. especially of
ray is of lower rate
of vibration —
Pressure means are
are already [illegible]
[illegible]
Experiments recent
brought by Wood
[illegible] work —
also chemical
rays which have
[illegible]
[illegible]

Spectroscopic
[illegible] tubes
[illegible] use of [illegible]
[illegible] —

Pure Magnesia
in Cleaning Bronzes
& other Ornaments
Glass Hand Vases
Lithographic Lake
Cathodes for
Superphosphate
Sludge Washes
Precipitated
or Silicate Magnesia
Lime Barr & other
Metals –

Carry a 0.100 tube
Platinum –
Also Mg & thorium
& Y. ray tubes –

10 Lettering tubes
10 Resonators & a
worm with Zinc
tubes shielding
or possibly 10
brandes

Fused Tungstate
of Lithia should be
better than Lime Impurity
by Be

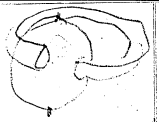
X Ray, Radium
Mesothorium should
with proper salts
in paper with
phosphorescence
give red by the
other Chemical
paper - Chemicals -
for XYZ

Hatrive - which op

Earth

perhaps Wolframite
will give scintillation
with XYZ

Another Detector is
a Spark Coil, points
adjusted just on
verge of sparking
Act ray strikes -
Get a Gold leaf
Electroscope -



Press loop firmly
Microphone between
but loops [illegible]
metally [illegible]
use [illegible]
phone -

Coil

Thermo Iron &
another metal [illegible]
Alternate Current [illegible]
galv -

bulb like Thermometer
only larger & colored
[illegible] iron [illegible]
light X, Red Cord
around the Lobster
with Microscope

Try 6/4 para on
composition time test
Try 6/4 Rubber no
[illegible] high
BP & para - resol
also, with Sulphur

Try treating fabrics
or yarn etc to get
polymerized Elastic
[illegible] resol
with Burned
[illegible]
[illegible] Urea & Urea
also P_2O_5 in acid
etc

Also, Organic Salt
to harden Reduced
& Tung Oils polymerized

Make the WO, Mo
Cr Ur & other metal
salts by precision in
Salt.

perhaps with Cobalt
Chloride after exposing
to the rays of
Energy [illegible]
do not give
light may give
other rays

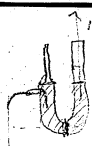
Coin nonwater
subjected to def
rays may photo
direct on them
black paper

Crystalline tissue
water + organic
Liquids which
powerful thermo
(10) alternation
elastic
Absence of
acid increased
thinning of
weakening

If in fusing any
Temperature time
impossible to be
put full use
temperature of the
impurity

two glass rules
defraction grating
one behind the
other parallel
one to cause
water to
interfere
Concentrate Germ
on thermo

Use an adjustable
rate condensing
but variable pitch
& adjustable for
Velocity. Then
with increasing
rate from see
adjust Constant
rate to make
64 mils or increase
& decrease Volume
all under control of
Revolution



Earth = [illegible]
will [illegible]

Patent ~~Semi Condensing~~
the Condensate before
~~counting~~ —

On a good cylinder
for Eng [illegible] use
KOH with different
oxides the decision
in it —

Bowls made of [illegible] like transport [illegible] with middle [illegible] one side has [illegible] [illegible] than the other [illegible] light passes through [illegible] [illegible] absorbed in one direction the other the whole wall [illegible] like a [illegible]

Could connect to megaphone or internal light or other [illegible] or [illegible] mirror

Rig up a magnet poles against 1st audion bulb & with key & sufficient number of cells see if hear it on telephone 3 days also see if other rays will work when shutter used

x is closed
Magnetic circ
magnetized

this covers the 7th moment but leaves no free lines use no pole for magnetic [illegible]

discharge condenser between balls using Induction Coil & Secondary rapid working Chronometer [illegible] following letter to Scott photography

Formula (8/13)
Developing Sol
1/2 lb Sulphate Ferrous
to 4 gals Distd H2O

Clamp Crystals at Each end — twist one End by a Vibrating lever to give 100 or more Vibrations per Second & test for Rays also ~~[illegible]~~ connect Ends to Ray instrument & insulate & also direct metal Contact at Ends

Introduction

Then dried in front of
Carbon balls - &
gas-lens -

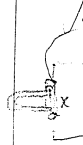
Condenser made
with Vacuum of
Oxalate of Calcium
(10) coated on Metallic Lenses
& Metals -

X ray etc at distance 65
photographically defective
to microscopic structures

EMG - with aqueous
but expensive above
20 only for pure in
powder, 5% Silicate data

Secret water, phone
waves so high in
frequency sent that
is still perfect of
Audition on magnetic
system too great
Use Microscopes + EMG
without microscopes

Make some Copper Cellulose sheets for wiping — see if acetocellulose is electrolyzed by Vacuum sheets



Bell Recv or Microphone & Audion x a Metal diaphragm — Other on electrolyzes the throw of the

Molecules for plating of a metal [illegible] Vibrate like

Ray from Electrolyzed Metal Cathode in Silica where composition [illegible] Lucy time to Compensate also in Combined Vacuum & other Substances

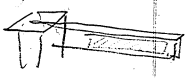
Prepared Sulfides for [illegible] Experiments

Fredrick make Emaj new
Bailedum [illegible] to 3 inch
[illegible]

200 almost premium
Carpets for [illegible] Sheet of
50 100 150 200 [illegible]
300 at 20% Rest,
old Expunt.

Sand Water [illegible] of
20 pk [illegible]
1/2 to 1/3 – better.
Urgent [illegible] water
might be better [illegible]
[illegible]

Dimondsco try Clear
Lead & Rubber for dure
[illegible]
[illegible]
5 sheet



Quartz etc pressed
Metallic [illegible] on
Lock side
Vibrated sands wear
of some kind out

Try Sodium Amalgam
of most plate Cu
to Copper & Cu plates

With Chemical Copper
Recording Cam
make it practically
accumulators by
slow movement of
Record tape Sound
very slow sending
hardly any limit to
sensitiveness

Also send into a very
small storage battery
& discharge Chemical Well
Gals. Say 300 Gallon
& Commutating robot

Roman Letter Wireless
5 tunings & Quadroon
& Chemical Copper

See if Condensed
Sound of powerful
Sound Record
will photograph using
a + O

Try P.O. Dept of N.Y.C.
Wireless Telegraphy
if Nyd not Fe Com

Electrical dish containing
Quarter [illegible] substance
to see if more or less
Quartz could be obtained
by electrofusion strongly

Relationship in bridge tying
all metals & see if any
have higher or lower temp
than [illegible]
also their oxides ?

Weight subject a proof
A4 giving say 90 amp
pulse to pressures in
North, Hydraulic for
say 10 hours to see
if Model will respond

Take a fully charged
iron socket put in
Sulphate iron & plate
the iron out & see
what's left, also
plate more iron in
nearly work &
Test for capacity

Plate Ni on fire tube
French form as well
green & light iron
Ni Moly Bch wire
well & mounted
see if compression of

See if Cyl can not
[illegible] used in
Lacquer

~~Lacquer~~

Fund of educational grounds around certain towns
Remove Spring
Rectangle around museum & Lyceum
Etc

Find out if City work by Village or Government
Think to Village -

Wireless Phone Best.
Phone 100 millivolts
of an amp -

Microscope in dark
Def fluorescence Infolenda Etc
Micromiles to cause it
to approach close to
see scintillations

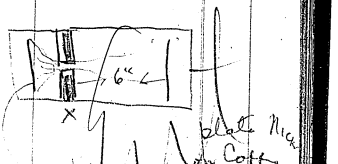
a P or N charged
insulator that near
a Audion + mount
phones vary the
Current + be heard
in telephone (12) feet
near No 1 input Audion
Can school it to +
room to make a
note Think
~~Class in Vbat~~

Hold [illegible] Rod in over the
pen of Pilla - dotted X Ray
see if any change

Spunk gap - use Vibrator
with diff. adjustment on
Elec. pen & X Tube - see if
rate of beats on Tube alters
all kinds of things, can be done
Think at X a vibrator should
be put in
Plungers may be
worn in iron
Magnets - See abt

Hurry Crocks for
Auto Engine - go see if

Hayes get another
Bumper Cant find the
one Have



X brass insulator with
Round hole 1/3
+ 1/8 long -
see if Can get
Circle of Copper

Take Cone stalks on Telefon line use Carborundum detector across line — to discharge stalks on Receiver waves, without harm during waves set up Circuits & Impatence Ck + Ling

old Iron Cook 4508

Load 2 packets made tube scratch-crystal + 2 more scratches much —

Reg Bat non perfects
Taken out of test cells
after going bad + after
250 ~~hours~~ Run load
bad from back of use
Cells 1630 1639 — average of
10 —

Before coming out of Cells

	V	%
Went	896	—
8th run	2289	3516
15 "	2540	3796
16 "	3047	4655
17 "	3137	4709
18 "	2936	4431

Sensitiveness of best head phone

60	vibs sec	620 millionth of volt
120	"	290
180	"	170
300	"	60
420	"	17
540	"	8
660	"	4
780	"	1.1
900	"	0.6

800 sec 1 millionth of volt

Enthusiasm 100 of sec gives deflection sufficient for the coupling with $\frac{1}{10\,000}$ of volt,

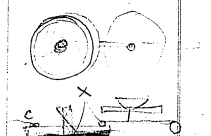
Most sensitive [illegible] volt
set up per sec of time,

Sensitive galvanometer 11.000 ohm
10 sec swing period 9 divs deflection
with less than $\frac{1}{10\,000\,000}$ volt

Capillary electrometer $\frac{1}{10\,000}$ volt
Telephone relay ~~[illegible]~~ 1.4 V 100 ohm

Make some sulphide NaOH
Upno - Crucible up to same
size as our [illegible]
Then Oxidize it by Hydrochloric
& watch it [illegible]

Use our dead money
describe what a cell
or battery is NaOH —
also H2SO4 —
Electro to see if can
bring out electric
possibly electric
Judge it to get
some say 50 or 100
Towards Ohm
50 — also specially
hard lumps —



More or less 22 Cover
Electrolyte surface + this
is discharged by C or N
Thin section, or direct
This is not alternating
S
1

Mendrecaft where is —
the Encyclop Britannica
p 608

Dehydrate FeSO4 Crystals
by Melted CaCl

Cast red iron 3 hour
roast, Pass 100 mesh
with solution of ~~Sulphate~~
~~Nickel~~ Nitrate Nickel
90% Iron 10 Nickel
Bonito agent — Reduce
with H The Nickel & Iron
make + conductor
all through on Cathode
+ rare Tail End cover
up a grow greater
Capacity

~~Dehydrate screened Mg SO4 in Vac at gentle heat.~~

~~Frid Oil polish the surfaces of Ebug Cylinders by [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]~~

~~Dissolve Cook the Chemicals and Resin under pressure of 60 in vacuo at 500 F. also by grinder pressure~~

Ca WO_3	20	
Al hydrox	30	
Mg "	30	filler
Zn "	26	
Ca Fluoride	2[illegible]	
Red HgO	22	
Calcined HgO	26	
Mg Flouride	20	Smooth
Sr Oxalate	35	Gray crystals
Ca Chromate	26	crumbles
Ca Oxalate	32	
Ca Chromate	20	
Black Stainless	28–30	
Sr Borate	28	
Al Flocom	24	Crumb
Ca Oxide	32	
Ca Carbide	34	Fingerprint [illegible] [illegible] [illegible] [illegible]
Sr [illegible]	20	
Sr Carbonate	20	
Ca Oxal 500 at	26	
Sr Carb 500 at	32	
Sr Oxal 500	32	[illegible]

get 2" chunks of minerals
Containing the Rare Elements
Columbite Samarskite
Etc to test for rays
not now but will by
present instruments

Cupric Oxychloride
usual in KOH for
detonate

Marganate Barium
dilis

2 Molecules Boron Trioxide
+ 3 molecules Lead Oxide
fused gives a glass
Softens in hot oil

Method forming very
large Crystals
Chem Soc pd 1879 352

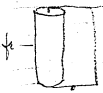
Have we a Tune in Lost
"Call me your Darling eyes"

McHayes what Opera:
I have heard Heard but
never heard.

Speak to Muller about
Hand recommended by
Sand. double
+ [illegible]

Make some conducting Selenium & test point for recording like Selenium Also Conducting phosphor & Sulphur

legal Dept get copies all US patents Eberhard Pictures -

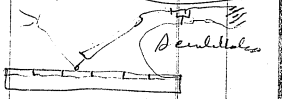


Approx. Relation with earth

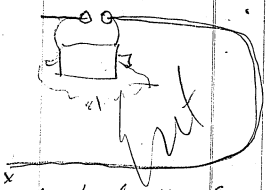
Limits of audibility of Telephone Diaphragm is an amplitude ~~[illegible]~~ is 6.3×10^{-10} CM

Encyclopedia Brit [illegible]

Helium Recording apparatus [illegible] telephone [illegible] in water [illegible] depth



Scintillation see if there is a bombardment say on Zn Sulfide scintillation shots thru Diaphragms + Electrophorus



See effect of the channel vibration at end of long wave or Ray

Ocean - next to land in summer temperature are very sticky Mucilaginous plankton with accumulation of debris

" filter water & get sediment, Tests

Use Gray's Lamp for Sharps Axe to crack off the edge of the train due to the [illegible]

Build fire lighter for round trip of see anchor to stop

Sludge acid from Petroleum treated with fuming Nitric gives a resin floats

Mesh this & compress into tube cylinder when heated expands to soft bits. Observations respect lack for blind

Varnish

1/3 lb fresh fine Coumarone Resin
mix & press warm
or press & bring up
plate to melt & add
in Coumarone —

~~Add to Flow~~

dilute with
2 pts two bottles put
a little strong oil in.

Try fine flour Sulphur

A falling body due to
gravity & condition of
observing instruments
at right angles
should indicate the
energy in gravitation
[illegible] but says
it should [illegible]

Fluorescence + phosphor
are due to strains in
crystals
Hence Electric magnetic
Heat + sudden pressure
Crystals which will now
do not glow + show
+ see delay which
after straining &
Exposing to light heat
Rain + X Ray

Show slides of
phosphorescence, like
light that you have
1st plate placed then
a 2nd plate of other
material, which
phosphorescence
on them removal
plates they remember
all the light &
giving store bundle
powder —
Fluorescence phosphor
+ the other ray pass
thru wood & stop that
closed to the light
& then the end of apple
pass thru & down

Remainder of Experimental
draft from 2 drawer
Tried to make to give
Repulse the Bed gives
Wants to swing down
Down [illegible]
Not results with
instruments.

Bismuth Bi
[illegible]
[illegible]

Diamagnetic Crystals
repelled by Magnetic
Lines, it may be that
the Diamag Crystals have
a system of lines quite
different from Magnetic
lines of Force
If Bismuth rods were
made a diagram of lines
of Force would show
something different
from Electric

Made 4 pairs of 7/2
packets with Brass
Kind of metal, also
Conducting Wires make
test Cells for Standing
Cold -

Wednesday 10 Wilder
Says Eb I am going
to pass Records
Wednesday

go com to Studio
& Cut Bell of long
horn & lengthen it
to that extent

go com the 500 99
Records put out sends
& stopped playing
them & played
same as of & commenced
heard them ~ 25 in
Cut

Need Radio Chemist
35 work - Make
it away

Some Wire flow
Gardner only
Needs 2" frequent
on Pinedo Hallows

See if any Crystals will show fluorescence by powerful Light from Spectrum & Sun or by exposure to Heat X Rad, Mag Elec X-ray etc or ~~that can~~ in Dark room with photo or look Electroscope

Alternately Cannot throw Crystal in Zero Light.

Carbonyl Sulphanilic acid Crystalline Screened to see for Microscopic other Organic Sulphates See W Stuart Walling on Walls Marked. & those which will be very light having Any Aluminous etc in Crystal Heat code Tetrahydrate — Crystals Uric Acid + Urates Carbonyl for Microscope

test for Selenium in H_2SO_4
5 pts acid 10 water
10 pts of sulphurous
acid water, Selenium
precipitated rapidly
from Uranium
Can detect 0.003%
1 pt in 10000 ?
a Current of Acetylene
will also throw it
down to more
delicate 1 in 100000
if Acetylene has some
HCl it comes down
quicker.

HCl must made
free from H

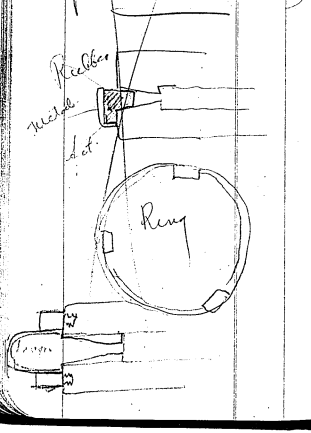
see D Bidwells paper
in Phil Mag on
Selenium (5) 31 -
250 256 —

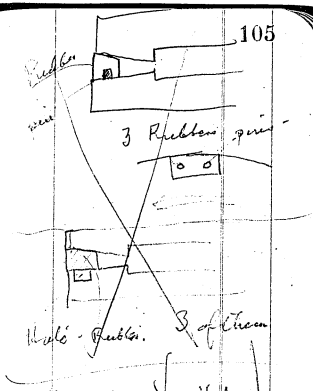
They force Selenium & Elements
Carbon plates & cool
slowly, get permanent
res after 48 hours

try indigo for chem
paper - dis in H_2SO_4

try benzanthrone test
white ppt added to
a Color for 0 ounce

Alter a moved with springs in ring etc to keep moved apart till heat





Bismuth rod in Helix powerful alternating current use of Rod and coil
Cause glass flare
etc or alter above in (decay)
Strength of glass or flint of high power flint

16/ 1894

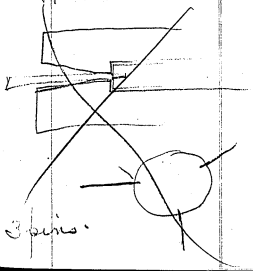
Made lime expands 1½ times less than sulphur — make a joint piece which will work first

Sulphur	000183
Ox Fe	000016
glass	000024

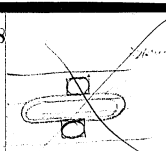
Helium in front of slit of Spectroscope [illegible]

Lead bought be very long

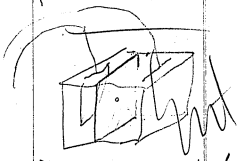
Weapon No 4 ½ inch rounded with 1 lim of Lead [illegible] — It must have of changing [illegible] time [illegible] also without [illegible] Roosbam [illegible] should have [illegible] about like 5 inch [illegible] of Submarine at ½ [illegible]



3 bins.



Films on glass of all kinds of things. that go to make up Metals. Metalloids Selenides Tellurides Metallic Selenides see how affected by Light heat, X Ray X-Z



Insulator + 002 hole
Deposit on platinum, acc.

deposit can be made
disymmetrical by reagents etc

Also Moore + Cook cleaned platinum pieces in Acid they are levelled or can be levelled — cleaned lead, shear or bend under pressure

Charles + see that in arrangement with T that future he can transfer any big to a Computator

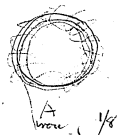
c of wedge b a relay with powerful current intermittently also alternated —

Different liquids, + different methods. as to date. Use xyz measurements length of cell 4" + one of 3 ft —

In listening to receivers,
find best position for phone
to stop echos, also remove
back also Bell part of horn
& Extend small point out
Also test of a tube instead of
funnel shaped as small end
of funnel will be loud
Enough — also try, audiophone

Have audiophone fixed up
with Extra diaphrm &
Gravolona —

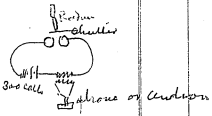
Charles & Orrand about
more Advertising



1/8" soft charcoal
iron, insulated 200 ft —
Served with 1/16 Copper wire
2 or 3 layers insulated
Poles A B at a distance
from Coil internal &
alternate Current
Use also Condenser
Connect all kind
instruments to A B —

Get best gold wire also special
Electrodes used in Platinum
etc,

Receive and test electrified bodies to & from Audion bulb when operating



+phone

If there is resonance on open circuit it may be cause of broadcasting [illegible]

Telemeter

Try healing Reg rod
wax with sulphurous
acid & of medicine
Make test wave & test

Test New Record with
water alcohol
freezing - Heat

Kellow J Aubscribed
5000 Lab Loan
East Orange

In writing chief of records
Note % of use of energy +
accompaniment
Put rule up using only ear to
lose weak arrangements
+ head with ear clapper +
distance for Loudness

Lampblack bottom
put in sugar, asphalt,
etc in lampblack
by wash solution & press
bottom & bake in
charcoal with
pulverizing so they
will be held together
by carbon but so small
that its only say 5% of
the whole mass of carbon
dust. Then use carbon
in gas alone

Also granules of these
dust broken up &
screened to size —
& used in gas alone

Dimroth & Twin down
dog are reg blanks
used in factory. 1/8 less
dia varnish seed was
a point see how they
act.

Maxwell-Vandy Fuller
if you come to use
recordals let me know
the type of records you
will use —
What records do you
use on long tubes.

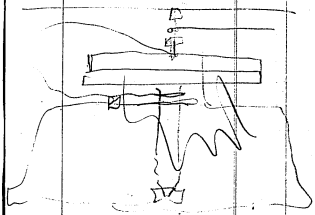
Make wear test on New record to see if Varnish 1 Coat stand up no Cracking, b Making away & quality of varnish after running

Wally to determine how long after block can use + if Dump out Reg is OK

Make New Block MT in cylinder by Moulding on Squeezing Varnish + press

*

Find out what being done with design Cu Ni working Moulds + without pressure



Disc-pass Elec
xyz Elec note charge
friction ground section
tight

got Thermopyne buttons
Lampblack powered in
180 mesh acrylic, brew
to get conductivity —

Dally - If a second
black well squeezes
out 1/8" dia
what is necessary of
preaching with such
great accuracy? —
Print at 800 700
600 500 400 300
~~200~~ 1st print
700 1st 300 second
& 400 3rd

Order filter ark
put on Nickel plating
& glass new set to
leave them on & keep
pressure of Tonic —

Its doubtful if
iron can be kept in
furnace condition

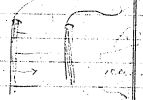
Try flask at Fossy
take on dark with
iron in it — & see

Ohmyhaos 8 c/o
½ in wooden
Ohmyhat 2 c/o or
less

Get a ni dissolving
before Cu put on
a dissolve a little
of Cuck to bring
out colors a
Cloth of Tannic

also try
some ni ammonia
Sulfite ni
Reg Dat with
a yellow iron

Find out name of man
who got out,
As Belhorn
as Strauss would
play it.



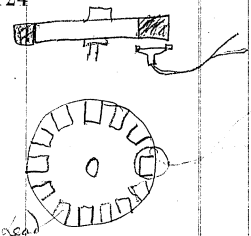
Make a cathode
[illegible]
a very heavy [illegible]
[illegible]

Put 2 E valves on
anodium backing
Each other so no
Current gets thru
then try X ray
instruments to see
if anything comes
thru —

Put Crystals in non
Soluble liquids
Subject liquids to
strong Sound
waves or Electric
stream like condenser

with AC - high Volt
see if any rays Come
from Crystal & tells
common it liquids
that waves come
out & test

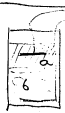
Try change the
Photric Collodion in
the bath to
not Collodial
to permit filtering
Easy —



Wheel to give 175 to 200 pieces of lead or tungsten metal passing over a diaphragm perpendicular to Newton gravitational stresses into suitable sound receiving & electro microphone & 3 large electron attraction orbits of the lead blocks to the earth should make a complex

Perhaps it should work edgewise

Cinnerone resin Cinnabar polymerized at 160° Cent (via Par Hsang)



Jar 2 liquids
H_2O lower b
Petrol Benzene
2 electrodes high
Voltage DC, 5 volts
[illegible] magnets
diffuse into each other

also make to an attached dry te
also colored if possible

Group Tuning as applied
in form of a clock
not affected by
Copper Deposition
for Emg

Osmos flow
or

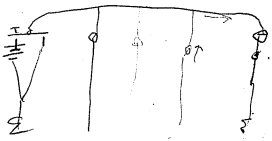
Patent Amplifier

also another with
with Condensers.

Also another with
E Valve to change
Currents in Circuits

CP Water, Aluminum
Electrodes, Sealed
well cut as an
Recipring Condenser

yellow rump
white throat
white wing & tail
pointed bill - sharp
very large eyes
deeply forked tail
slate colored head and
back



2500 (
24
10000
5000
6500

7 | 79000
11286
28
90284
22572
8
3168

50 | 316000 (630
300
16500